



**PADMABHUSHAN VASANTRAODADA PATIL
MAHAVIDYALAYA,
KAVATHE MAHANKAL, DIST. SANGLI (M.S.)**

**CAREER ORIENTED COURSE
IN
DATA ANALYSIS USING MS-EXCEL**

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From,
Head,
Department of statistics
P. V. P. College, Kavathe Mahankal,
Dist. Sangli, Maharashtra 416405
Date: 16/12/2022

To,
The Principal,
Padmabhushan Vasantrodada Patil Mahavidyalaya,
Kavathe Mahankal, Dist. Sangli,
Maharashtra 416405

Subject: Seeking a permission to start the career oriented course in “Data analysis using MS- Excel”.

Respected sir,

As per your guidelines we are going to start a career oriented course in “Data analysis using MS- Excel” in Department of Statistics for our college students. This course will be of 30 hours and will be completed during January 2023 to March 2023. The course will be definitely very beneficiary for students.

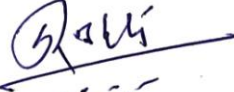
I request you to give permission to start the above course in the Department.

Thanking you.

Yours faithfully,

Permission granted


Acting Principal
Padmabhushan Vasantrodada Patil
Mahavidyalaya, Kavathe Mahankal Dist. Sangli.


Head
Department of Statistics
P.V.P. Mahavidyalaya,
Kavathe Mahankal, Dist.-Sangli.

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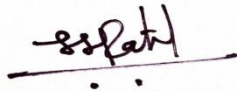
DEPARTMENT OF STATISTICS

Date: 20-12-2022

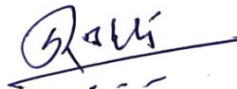
NOTICE

All the students in P. V. P. college, Kavathe Mahankal are informed that, Department of statistics is going to start the career oriented course in “Data Analysis using MS- Excel”. The interested students are requested to enroll upto 31st December, 2022.

Coordinator



Head



Head
Department of Statistics
P.V.P. Mahavidyalaya,
Kavathe Mahankal, Dist.-Sangli.

BROCHURE



The brochure features a dark blue background with a white banner at the top. The banner contains the college name, affiliation, and two portraits. Below the banner is an orange oval with the department name. The main content includes the MS-Excel logo, course title, and several green circles listing benefits. On the right, there are three colored buttons for start date, duration, and enrollment status. A contact number is provided at the bottom right.

Shikshan Prasarak Sanstha's
Padmabhushan Vasantrodada Patil Mahavidyalaya
Kavathe Mahankal, Sangli
Affiliated to Shivaji University, Kolhapur

Department of Statistics

Excel

CAREER ORIENTED COURSE in

Data Analysis using MS- Excel

Well Equipped Computer Lab

All the Basics of Excel

Free Certificate


Data Handling and Analysis

Starting from 2nd January, 2023

Duration: 30 hours

Open For Enrollment

Contact: 9975736168


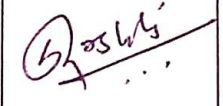


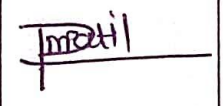

Head
Department of Statistics
P.V.P. Mahavidyalaya,
Kavathe Mahankal, Dist.-Sangli.

admabhushan Vasantrodada Patil Mahavidyalaya, Kavathe Mahankal.

DEPARTMENT OF STATISTICS

Data Analysis using MS Excel

Board of Studies

Sr. No.	Name	Designation	Signature
1.	Prof. Dr. M. K. Patil	President	
2.	Asso. Prof. V. V. Koshti	Member	
3.	Mr. G. D. Satpute	Member	
4.	Mrs. S. S. Patil	Member	
5.	Miss. P. M. Patil	Member	

Padmabhushan Vasantodada Patil Mahavidyalaya, Kavathe Mahankal.

DEPARTMENT OF STATISTICS

Data Analysis using MS Excel

Objectives:

1. To acquaint students with some basic concepts (elementary knowledge) in MS-Excel.
2. To handle the data using MS- Excel.
3. To compute the statistical measures and construct charts using MS-Excel.
4. To analyse the data using data analysis tool pack of MS- Excel.

Duration:

The course will be completed in 30 hours (3 months).

Eligibility of the student:

1. The student must have the basic knowledge of computer.
2. Student must have passed H. Sc. Examination.

Course outcomes:

By the end of this course students are expected,

1. To have some basic knowledge of MS-Excel.
2. To handle the data using MS- Excel.
3. To compute the statistical measures and construct charts using MS-Excel.
4. To analyse the data using data analysis tool pack of MS- Excel

Evaluation Method:

The examination will be conducted in two parts – theory and practical. Theory examination will consist of 25 multiple choice questions which will be conducted on Google form and Practical examination will be of 25 marks which will be in computer lab at the end of the course.

DEPARTMENT OF STATISTICS

Data Analysis using MS Excel

Syllabus

Objectives and course outcomes:

The main objective of this course is to acquaint students with some basic concepts in MS-Excel. They will be introduced to some elementary knowledge of MS- Excel. By the end of this course students are expected to be able,

1. To handle the data using MS- Excel.
2. To compute the statistical measures and charts using MS-Excel.
3. To analyse the data using data analysis tool.

Unit 1:

(15 hours)

1.1 Introduction to Excel: Getting Started with Excel, Identify the Elements of the Excel Interface, Performing Calculations, creating formulas and inserting function, Find and Replace Data, Apply Number Formatting, sorting and filtering, Adding and Removing Data, text to columns, autofill the data,

1.2 Charts: Create pie chart, bar chart, scatter plot, line chart, Selecting Charts and Chart Elements, Moving and Resizing Charts, Changing the Chart Type, Changing the Data Range, Switching Column and Row Data, Choosing a Chart Layout, Choosing a Chart Style, Deleting Charts, Formatting Chart Objects, Inserting Objects into a Chart, Changing Chart Labels.

Unit 2:

(15 hours)

2.1 Formulas: Writing Formulas, using AutoSum, Inserting Functions, Editing a Range, Formula AutoCorrect, Built-in mathematical and statistical functions for obtaining descriptive statistic, computing PMF/PDF, CDF and quantiles of the well known distributions, rand function, Logical functions: if, true, false, and, or, not

2.2 Pivot tables and pivot charts: Creating PivotTables and Pivot Charts, Manipulating a PivotTable, Changing Calculated Value Fields, Creating a PivotChart, Setting PivotTable Options, Sorting and Filtering PivotTable Data,

2.3 Excel add-ins: analysis tool pack


TIMETABLE FOR CERTIFICATE COURSE IN EXCEL (2022-23)

B. SC. III

Day	Lecturer: Mr. G. D. Satpute			
Monday	09-01-2023	16-01-2023	23-01-2023	30-01-2023
Tuesday	10-01-2023	17-01-2023	24-01-2023	31-01-2023
Wednesday	11-01-2023	18-01-2023	25-01-2023	
Thursday	***	***	***	
Friday	***	***	***	
Saturday	***	***	***	

Day	Lecturer: Mr. G. D. Satpute				
Monday		06-02-2023	13-02-2023	20-02-2023	27-02-2023
Tuesday		07-02-2023	14-02-2023	21-02-2023	28-02-2023
Wednesday	01-02-2023	08-02-2022	15-02-2023	22-02-2023	
Thursday	***	***	***	***	
Friday	***	***	***	***	
Saturday	***	***	***	***	

Day	Lecturer: Ms. P. M. Patil				
Monday		06-03-2023	13-03-2023	20-03-2023	27-03-2023
Tuesday		***	14-03-2023	21-03-2023	28-03-2023
Wednesday	01-03-2023	08-03-2022	15-03-2023	***	29-03-2023
Thursday	***	***	***	***	
Friday	***	***	***	***	
Saturday	***	***	***	***	


Head
Department of Statistics
P.V.P. Mahavidyalaya,
Kavathe Mahankal, Dist. Sangli.

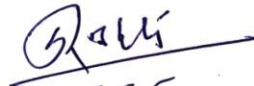
TIMETABLE FOR CERTIFICATE COURSE IN EXCEL

B. SC. I

Day	Lecturer: Ms. P. M. Patil				
Monday	02-01-2023	***	***	***	***
Tuesday	03-01-2023	***	***	***	***
Wednesday	04-01-2023	***	***	***	
Thursday	05-01-2023	12-01-2023	19-01-2023	***	
Friday	06-01-2023	13-01-2023	20-01-2023	27-01-2023	
Saturday	07-01-2023	14-01-2023	21-01-2023	28-01-2023	

Day	Lecturer: Mrs. S. S. Patil				
Monday	***	Semester Exams			
Tuesday	***				
Wednesday	***				
Thursday	02-02-2023				
Friday	03-02-2023				
Saturday	04-02-2023				

Day	Lecturer: Mrs. S. S. Patil				
Monday	***	***	***	***	***
Tuesday	***	***	***	***	***
Wednesday	***	***	***	***	***
Thursday	02-03-2023	09-03-2023	16-03-2023	23-03-2023	***
Friday	03-03-2023	10-03-2023	17-03-2023	24-03-2023	31-03-2023
Saturday	04-03-2023	11-03-2023	18-03-2023	25-03-2023	


Head
Department of Statistics
P.V.P. Mahavidyalaya,
Kavathe Mahankal, Dist.-Sangli.

Padmabhushan Vasantrodada Patil Mahavidyalaya, Kavathe Mahankal.

DEPARTMENT OF STATISTICS

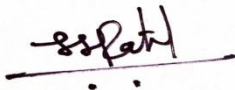
Data Analysis Using MS-Excel

Date: 31-12-2022

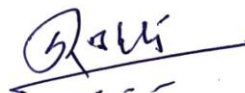
NOTICE

All the enrolled students are informed that, the lectures of the course will be started from 2nd January, 2023 as per timetable. All the lectures will be conducted in computer laboratory of department of statistics.

Coordinator



Head



Head
Department of Statistics
P.V.P. Mahavidyalaya,
Kavathe Mahankal, Dist.-Sangli.

Padmabhushan Vasantrodada Patil Mahavidyalaya, Kavathe Mahankal.

DEPARTMENT OF STATISTICS

Data Analysis using MS Excel

Attendance (B. Sc. III)



Sr. No.	Name	09/10	10/10	11/10	16/10	17/10	18/10	23/10	24/10	25/10	30/10	31/10	01/11	06/11	07/11	08/11
1.	Rutuja Sunil Deshmukh	P.S.De	P.S.De	P.S.De	P.S.De	P.S.De	P.S.De	P.S.De	P.S.De	P.S.De	P.S.De	P.S.De	P.S.De	P.S.De	P.S.De	P.S.De
2.	Prajwal Shivaji Patil	P.Pat	P.Pat	P.Pat	P.Pat	P.Pat	P.Pat	P.Pat	P.Pat	P.Pat	P.Pat	P.Pat	P.Pat	P.Pat	P.Pat	P.Pat
3.	Pooja Balkrishna Kadam	P.Pat	P.Pat	P.Pat	P.Pat	P.Pat	P.Pat	P.Pat	P.Pat	P.Pat	P.Pat	P.Pat	P.Pat	P.Pat	P.Pat	P.Pat
4.	Dhanashri Sanjay Bhosale	D.Pat	D.Pat	D.Pat	D.Pat	D.Pat	D.Pat	D.Pat	D.Pat	D.Pat	D.Pat	D.Pat	D.Pat	D.Pat	D.Pat	D.Pat
5.	Dipali Uddhav Londhe	D.Lon	D.Lon	D.Lon	D.Lon	D.Lon	D.Lon	D.Lon	D.Lon	D.Lon	D.Lon	D.Lon	D.Lon	D.Lon	D.Lon	D.Lon
6.	Suraj Dinkar Babar	S.Bab	S.Bab	S.Bab	S.Bab	S.Bab	S.Bab	S.Bab	S.Bab	S.Bab	S.Bab	S.Bab	S.Bab	S.Bab	S.Bab	S.Bab
7.	Sairaj Nandkumar Patil	S.Pat	S.Pat	S.Pat	S.Pat	S.Pat	S.Pat	S.Pat	S.Pat	S.Pat	S.Pat	S.Pat	S.Pat	S.Pat	S.Pat	S.Pat
8.	Dayanand R. Hipparkar	D.Hip	D.Hip	D.Hip	D.Hip	D.Hip	D.Hip	D.Hip	D.Hip	D.Hip	D.Hip	D.Hip	D.Hip	D.Hip	D.Hip	D.Hip
9.	Vikrant Anandrao Desai	V.Des	V.Des	V.Des	V.Des	V.Des	V.Des	V.Des	V.Des	V.Des	V.Des	V.Des	V.Des	V.Des	V.Des	V.Des
10.	Akanksha Suresh Athavale	A.Ath	A.Ath	A.Ath	A.Ath	A.Ath	A.Ath	A.Ath	A.Ath	A.Ath	A.Ath	A.Ath	A.Ath	A.Ath	A.Ath	A.Ath

Padmabhushan Vasantrodada Patil Mahavidyalaya, Kavathe Mahankal.

DEPARTMENT OF STATISTICS

Data Analysis using MS Excel

Attendance (B.Sc. I)



Sr. No.	Name	02/01	03/01	04/01	05/01	06/01	07/01	12/01	13/01	14/01	19/01	20/01	21/01	27/01	28/01	02/02
1.	Komal Dagadu Pawar	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
2.	Prajwal Shahaji Khot	P	P	P	P	P	P	P	P	P	P		P	P	P	
3.	Kajal Appaso Pawar	P	P	P	P	P	P	P		P	P	P	P	P	P	P
4.	Prathamesh Nivrutti Sargar	P	P	P	P	P		P	P	P	P	P		P	P	P
5.	Shruti Balasaheb Khot	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
6.	Shraddha Arun Koli	P	P	P	P	P	P	P	P	P	P	P	P		P	P
7.	Darshana Mahavir Gambhir	P	P	P	P	P	P	P	P	P		P	P	P	P	P
8.	Shruti Balaso Patkure	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
9.	Tanuja Tanaji Shingade	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
10.	Ashutosh Shankar Patil	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P

11.	Omkar Chhagan Punekar	Patil	O.C.P.
12.	Aniket Avinash Patil	Patil	O.C.P.
13.	Poonam Balkrishna Kadam	Patil	O.C.P.
14.	Snehal Babaso Patil	Patil	O.C.P.
15.	Harshada Dasharath Koli	D.O.Kel	O.C.P.
16.	Arya Ramesh Chayan	Patil	O.C.P.
17.	Sánika Sampat Patil	Patil	O.C.P.
18.	Sanket Sukhadev Patil	Patil	O.C.P.
19.	Siddhanath Anand Awalekar	Awalekar	O.C.P.
20.	Prashant Malhari Dubule	Patil	O.C.P.
21.	Bablu Tukaram Pawar	Patil	O.C.P.
22.	Jyoti Babasaheb Kamble	Patil	O.C.P.
23.	Vaishnavi Dnyandev Pakhare	Patil	O.C.P.

11.	Pranali Keshav Jagtap	Pranali	Keshav	Jagtap	Pranali	Keshav	Jagtap
12.	Shital Ananda Mali	Shital	Ananda	Mali	Shital	Ananda	Mali
13.	Tanaya Dhananjay Purohit	Tanaya	Dhananjay	Purohit	Tanaya	Dhananjay	Purohit
14.	Vikas Pradip Pawar	Vikas	Pradip	Pawar	Vikas	Pradip	Pawar
15.	Tejas Tatyasaheb Sathe	Tejas	Tatyasaheb	Sathe	Tejas	Tatyasaheb	Sathe
16.	Shakil Sardar Nadaf	Shakil	Sardar	Nadaf	Shakil	Sardar	Nadaf
17.	Someshwar Ramesh Borkar	Someshwar	Ramesh	Borkar	Someshwar	Ramesh	Borkar
18.	Aniket Mangesh Ghubade	Aniket	Mangesh	Ghubade	Aniket	Mangesh	Ghubade
19.	Manish Mahavir Kakade	Manish	Mahavir	Kakade	Manish	Mahavir	Kakade
20.	Anjum Maula Mulla	Anjum	Maula	Mulla	Anjum	Maula	Mulla

Padmabhushan Vasantodada Patil Mahavidyalaya, Kavathe Mahankal.

DEPARTMENT OF STATISTICS

Data Analysis Using MS-Excel

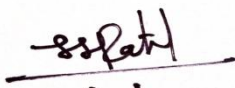
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NOTICE

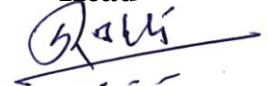
All the enrolled students are informed that, the timetable for theory examination and practical examination of the course in “Data Analysis using MS-Excel” is as below,

Examination	Time
Theory and Practical	Batch I 16 th May, 2023 (11.00 a.m. to 12.30 p.m.)
	Batch II 16 th May, 2023 (1.00 p.m. to 2.30 p.m.)

Coordinator



Head



Head

**Department of Statistics
P.V.P. Mahavidyalaya,
Kavathe Mahankal, Dist.-Sangli.**

Data analysis using MS Excel

Career oriented course

Email *

1. To input any formula in MS Excel, we have to input first * 1 point

- Plus (+)
- Minus (-)
- equal (=)
- None of these.

2. You can view a formula by double clicking the cell that contains the formula. * 1 point

- True
- False

3. Which of the following is the correct cell address? * 1 point

- A:2
- A2
- #A2
- @A2

4. What value would Excel return for this formula? * 1 point

$$=(82-32)/5+8*2.$$

- 91.6
- 26
- 7.69
- 36

5. What is a workbook in Excel? * 1 point

- a type of chart
- a file that stores one or more worksheets
- a sheet of paper with printed data on it
- a collection of files in folder

6. To find the harmonic mean of the data, we will use * 1 point

- HARMEAN()
- GEOMEAN()
- HMEAN()
- HARMONICMEAN()

7. If we want to separate the following data into columns, we would use * 1 point

- CONCATENATE
- text to columns
- Both of the above
- None of these.

8. To draw random number from Uniform(0,1), we will use ... * 1 point

- runif()
- RAND()
- RANDBETWEEN(0,1)
- None of the above.

9. Under which tab, will you find the chart styles commands? * 1 point

- File
- Data
- Insert
- Chart tools

10. Which function totals the number of cells within a range that contain numbers? * 1 point

- COUNT
- COUNTA
- COUNTBLANK
- COUNTNUMBER

11. If you want to find the empty cells within the range, what formula would * 1 point
work?

- =COUNTBLANK(B2:B6)
- =SUM(B2:B6)
- =COUNTA(B2:B6)
- None of the above

12. To find the 0.95th quantile of standard normal distribution, we would use * 1 point

- =NORM.S.DIST(0.05)
- =NORM.DIST(0.05)
- =NORM.DIST(0.95)
- =NORM.S.DIST(0.95)

13. To find the p value for two tailed t test we would use, * 1 point

- T.TEST()
- F.TEST()
- PT.TEST()
- None of the above

14. For finding CDF, we have to assign cumulative = * 1 point

- 0
- 1
- 2
- 3

15. Formula bar displays the content in the active cell. * 1 point

- True

False

16. contains an absolute and relative cell reference in a formula the absolute part does not change but the relative part does when you copy or drag the formula.

* 1 point

Relative cell reference

Absolute cell reference

cell address

mixed cell reference

17. We use chart to show the proportions of whole. *

1 point

line chart

Bar chart

Pie chart

Scatter plot

18. allows you to look at the workbook before printing. *

1 point

Print preview

page break preview

Print layout view

normal view

19. The file extension for Excel files *

1 point

insert

values

.xlsx

.docx

20. This defines the different parts of the charts. *

1 point

Legend

descending

- values
 labels

21. In MS Excel, are right aligned. *

1 point

- values
 Columns
 text
 rows

22. SUM, AVERAGE, MAX, MIN are the examples of *

1 point

- Range
 values
 columns
 functions

23. A chart that shows trend over the time. *

1 point

- line
 pie
 bar
 Scatter

24. If we find largest value in a range we will use ----- *

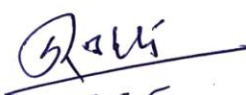
1 point.

- MIN
 LARGE
 MAX
 Nor of the above

25. Predefined formula that adds all the numbers in the selected range. *

1 point

- Pie chart
 Average function
 SUM function
 Max function


Head
Department of Statistics
P.V.P. Mahavidyalaya,
Kavathe Mahankal, Dist.-Sangli.

PadmabhushanVasatraodadaPatilMahavidyalaya, KavatheMahankal.

DEPARTMENT OF STATISTICS

Data Analysis using MS Excel

Practical Examination

Duration: 1 Hour Total Marks : 25

Instructions: 1) All questions are compulsory

2) Each question carries 5 marks.

1. Find A. M., G. M., H. M., median, quartiles using MS- Excel for the following data:

32, 35, 36, 37, 41, 39, 43, 47, 48, 38

2. Using MS- Excel, construct pie chart and Bar chart for the given data,

Class	F.Y.	S. Y.	T. Y.
No. of students	500	400	300

3. 12, 13, 16, 20, 13, 11, 12, 12, 12, 13, 10, 14, 17, 10, 18, 11, 15, 19, 13, 12
For the given data, create grouped and ungrouped data frequency table.

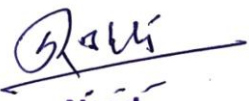
4. Using MS-Excel, find first four raw and central moments and coefficient of skewness and kurtosis for the following data

58, 74, 44, 28, 80, 42, 69, 43

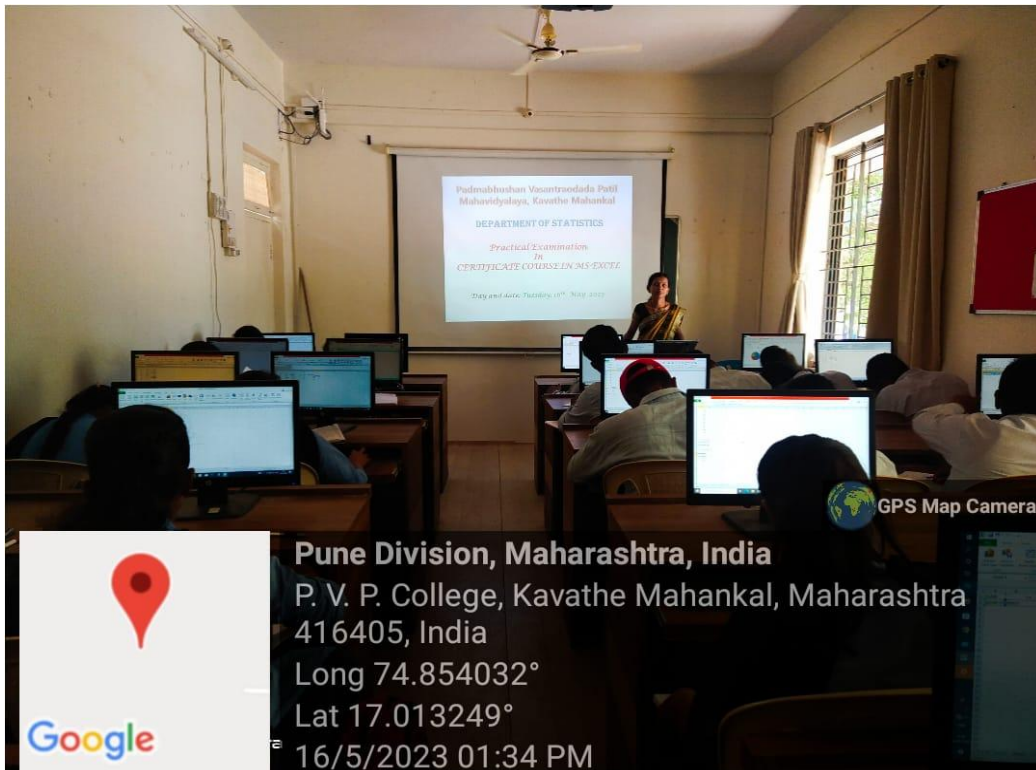
5. The marks in statistics of 50 students are given below.

Marks	0-10	10-20	20-30	30-40	40-50
No. of students	7	12	15	10	6

Draw less than and more than ogive curves.


Head
Department of Statistics
P.V.P. Mahavidyalaya,
Kavathe Mahankal, Dist.-Sangli.

Photos:



PadmabhushanVasatraodadaPatilMahavidyalaya, KavatheMahankal.

DEPARTMENT OF STATISTICS

Data Analysis using MS Excel

Result

Sr. No	Name	Class	Marks			Remark
			Theory	Practical	Total	
1.	Komal Dagadu Pawar	B. Sc. I	24	17	41	A+
2.	Prajwal Shahaji Khot	B. Sc. I	21	18	39	A+
3.	Kajal Appaso Pawar	B. Sc. I	11	23	34	A
4.	Prathamesh Nivrutti Sargar	B. Sc. I	14	18	32	A
5.	Shruti Balasaheb Khot	B. Sc. I	13	19	32	A
6.	Shraddha Arun Koli	B. Sc. I	23	21	43	A+
7.	Darshana Mahavir Gambhir	B. Sc. I	19	21	40	A+
8.	Shruti Balaso Patkure	B. Sc. I	17	21	38	A+
9.	Tanuja Tanaji Shingade	B. Sc. I	22	20	42	A+
10.	Ashutosh Shankar Patil	B. Sc. I	19	15	34	A
11.	Omkar Chhagan Punekar	B. Sc. I	23	15	38	A+
12.	Aniket Avinash Patil	B. Sc. I	24	17	41	A+
13.	Poonam Balkrishna Kadam	B. Sc. I	21	22	43	A+
14.	Snehal Babaso Patil	B. Sc. I	23	22	45	A+
15.	Harshada Dasharath Koli	B. Sc. I	25	22	47	O
16.	Arya Ramesh Chavan	B. Sc. I	24	21	45	A+
17.	Sanika Sampat Patil	B. Sc. I	22	21	43	A+
18.	Sanket Sukhadev Patil	B. Sc. I	25	18	43	A+
19.	Siddhanath Anand Awalekar	B. Sc. I	25	19	44	A+

20.	Prashant Malhari Dubule	B. Sc. I	25	21	46	O
21	Bablu Tukaram Pawar	B. Sc. I	14	17	31	A
22.	Jyoti Babasaheb Kamble	B. Sc. I	25	18	43	A+
23.	Vaishnavi Dnyandev Pakhare	B. Sc. I	25	20	45	A+
24.	Rutuja Sunil Deshmukh	B. Sc. III	21	24	45	A+
25.	Prajwal Shivaji Patil	B. Sc. III	22	24	46	O
26.	Pooja Balkrishna Kadam	B. Sc. III	23	24	47	O
27.	Dhanashri Sanjay Bhosale	B. Sc. III	22	21	43	A+
28.	Dipali Uddhav Londhe	B. Sc. III	17	21	38	A+
29.	Suraj Dinkar Babar	B. Sc. III	24	23	47	O
30.	Sairaj Nandkumar Patil	B. Sc. III	23	24	47	O
31.	Dayanand R. Hipparkar	B. Sc. III	20	20	40	A+
32.	Vikrant Anandrao Desai	B. Sc. III	24	24	48	O
33.	Akanksha Suresh Athavale	B. Sc. III	23	23	46	O
34.	Pranali Keshav Jagtap	B. Sc. III	18	19	37	A+
35.	Shital Ananda Mali	B. Sc. III	23	18	41	A+
36.	Tanaya Dhananjay Purohit	B. Sc. III	22	20	42	A+
37.	Vikas Pradip Pawar	B. Sc. III	24	23	47	O
38.	Tejas Tatyasaheb Sathe	B. Sc. III	24	19	43	A+
39.	Shakil Sardar Nadaf	B. Sc. III	19	20	39	A+
40.	Someshwar Ramesh Borkar	B. Sc. III	24	21	45	A+
41.	Aniket Mangesh Ghubade	B. Sc. III	23	20	43	A+
42.	Manish Mahavir Kakade	B. Sc. III	23	21	44	A+
43.	Anjum Maula Mulla	B. Sc. III	21	23	44	A+

(*A – Satisfactory **A+ - Excellent ***O – Outstanding)


Acting Principal
 Patanjali Vasantrao Patil
 Maharashtra K. Mahatma Dal Sangh

CERTIFICATE


Shikshan Prasarak Sanstha's
Padmabhushan Vasantaoada Patil Mahavidyalaya, Kavathe Mahankal,
Dist : Sangli, (Maharashtra)
Department of Statistics
Affiliated to Shivaji University, Kolhapur




Career Oriented Course in
Data Analysis Using MS Excel
Certificate

This is to certify that Mr./Ms. _____
(B. Sc. I/II/III) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has
successfully completed the career oriented course in "Data Analysis Using MS
Excel" during January 2023 to March 2023.



Ms. P. M. Patil


Mr. G. D. Satpute


Mrs. S. S. Patil


Asso. Prof. V. V. Koshti
Head


Prof. (Dr.) M. K. Patil
Principal


Acting Principal
Padmabhushan Vasantaoada Patil
Mahavidyalaya, Kavathe Mahankal Dist. Sangli.

Padmabhushan Vasantrodada Patil Mahavidyalaya, Kavathe Mahankal.

DEPARTMENT OF STATISTICS

Report on Career Oriented Course in “Data Analysis Using MS-Excel”

Title	Career Oriented Course in “Data Analysis Using MS-Excel”
Duration	2 nd January 2023 to 31 st March 2023
Organizer	Department of Statistics, P.V.P. Mahavidyalaya Kavathe Mahankal
Funding	--
BOS / Faculty	Prof. Dr. M. K. Patil Mr. V. V. Koshti Mr. G. D. Satpute Mrs. S. S. Patil Ms. P. M. Patil
Coordinator	Mrs. S. S. Patil
Background	Now a days analysis of data has high importance. For that, students must have some knowledge of softwares like MS- Excel, R, etc. MS- Excel is easy to handle and free to use. So this course is intended.
Objective	5. To acquaint students with some basic concepts (elementary knowledge) in MS-Excel. 6. To handle the data using MS- Excel. 7. To compute the statistical measures and construct charts using MS-Excel. 8. To analyse the data using data analysis tool pack of MS- Excel
Outcomes	5. To have some basic knowledge of MS-Excel. 6. To handle the data using MS- Excel. 7. To compute the statistical measures and construct charts using MS-Excel. 8. To analyse the data using data analysis tool pack of MS- Excel
Conclusion	Students got sufficient knowledge about MS- Excel and they are very excited to study such softwares in future. The course creates interest in students for analyzing data using softwares. Thus this course is fruitful and motivational for participated students.

Padmabhushan Vasantrodada Patil Mahavidyalaya, Kavathe Mahankal.

DEPARTMENT OF STATISTICS

Career Oriented Course in “Data Analysis Using MS-Excel”

Brief Summary

Sr. No.	Organizing department	Department of Statistics		
1	Type of Activity	Career Oriented Course in “Data Analysis Using MS-Excel”		
2	Duration of Activity	2 nd January 2023 to 31 st March 2023		
3	Venue	Computer Lab, Department of Statistics		
4	Participation			
	Students	Male	Female	Total
	B. Sc. I	9	14	23
	B. Sc. III	10	10	20
	Total	19	24	43
5	Result	B. Sc. I	B. Sc. III	Total
	A	5	0	5
	A+	16	13	29
	O	2	7	9
	Total	23	20	43



Acting Principal
Padmabhushan Vasantrodada Patil
Mahavidyalaya, Kavathe Mahankal, Sangli

CERTIFICATES



Shikshan Prasarak Sanstha's
Padmabhushan Vasantrodada Patil Mahavidyalaya, Kavathe Mahankal ,
Dist : Sangli, (Maharashtra)
Department of Statistics
Affiliated to Shivaji University, Kolhapur




Career Oriented Course in
Data Analysis Using MS Excel
Certificate


*This is to certify that Mr./Ms. **Akanksha uresh Athavale**
 (B. Sc. **III**) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has
 successfully completed the career oriented course in “Data Analysis Using MS
 Excel” during January 2023 to March 2023.*









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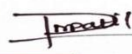
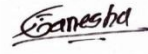
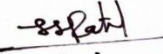




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Career Oriented Course in
Data Analysis Using MS Excel
Certificate


*This is to certify that Mr./Ms. **Aniket Mangesh Ghubade**
 (B. Sc. **III**) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has
 successfully completed the career oriented course in “Data Analysis Using MS
 Excel” during January 2023 to March 2023.*

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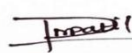
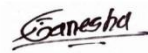


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Career Oriented Course in
Data Analysis Using MS Excel
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*This is to certify that Mr./Ms. **Aniket Avinash Patil**
 (B. Sc. I) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has
 successfully completed the career oriented course in “Data Analysis Using MS
 Excel” during January 2023 to March 2023.*




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Head **Principal**


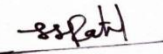


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*This is to certify that Mr./Ms. **Anjum Maula Mulla**
 (B. Sc. III) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has
 successfully completed the career oriented course in “Data Analysis Using MS
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Head **Principal**

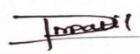


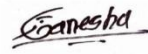
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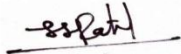



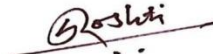
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*This is to certify that Mr./Ms. **Arya Ramesh Chavan**
 (B. Sc. I) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has
 successfully completed the career oriented course in “Data Analysis Using MS
 Excel” during January 2023 to March 2023.*


 Ms. P. M. Patil


 Mr. G. D. Satpute


 Mrs. S. S. Patil


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Head


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*This is to certify that Mr./Ms. **Ashutosh Shankar Patil**
 (B. Sc. I) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has
 successfully completed the career oriented course in “Data Analysis Using MS
 Excel” during January 2023 to March 2023.*


 Ms. P. M. Patil


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Principal

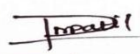


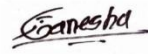
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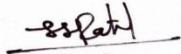



Career Oriented Course in
Data Analysis Using MS Excel
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*This is to certify that Mr./Ms. **Bablu Tukaram Pawar**
 (B. Sc. I) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has
 successfully completed the career oriented course in “Data Analysis Using MS
 Excel” during January 2023 to March 2023.*



 Ms. P. M. Patil


 Mr. G. D. Satpute




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Head


 Prof. (Dr.) M. K. Patil
Principal



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Career Oriented Course in
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*This is to certify that Mr./Ms. **Darshana Mahavir Gambhir**
 (B. Sc. I) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has
 successfully completed the career oriented course in “Data Analysis Using MS
 Excel” during January 2023 to March 2023.*



 Ms. P. M. Patil


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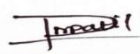


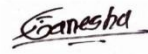
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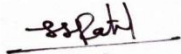



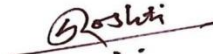
Career Oriented Course in
Data Analysis Using MS Excel
Certificate


*This is to certify that Mr./Ms. **Dayanand Ramchandra Hipparkar**
 (B. Sc. **III**) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has
 successfully completed the career oriented course in “**Data Analysis Using MS
 Excel**” during January 2023 to March 2023.*



 Ms. P. M. Patil


 Mr. G. D. Satpute




 Mrs. S. S. Patil


 Asso. Prof. V. V. Koshti
Head


 Prof. (Dr.) M. K. Patil
Principal

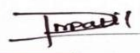



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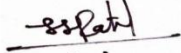




Career Oriented Course in
Data Analysis Using MS Excel
Certificate


*This is to certify that Mr./Ms. **Dhanashri Sanjay Bhosale**
 (B. Sc. **III**) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has
 successfully completed the career oriented course in “**Data Analysis Using MS
 Excel**” during January 2023 to March 2023.*



 Ms. P. M. Patil


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Principal

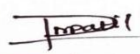


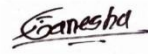
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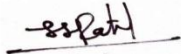



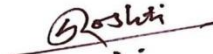
Career Oriented Course in
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*This is to certify that Mr./Ms. **Dipali Uddhav Londhe**
 (B. Sc. **III**) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has
 successfully completed the career oriented course in “**Data Analysis Using MS
 Excel**” during January 2023 to March 2023.*

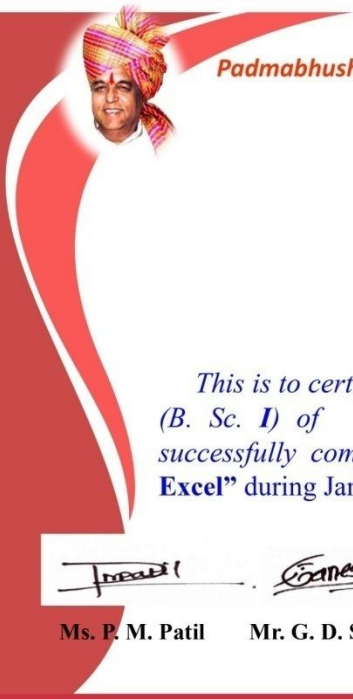

 Ms. P. M. Patil


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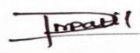



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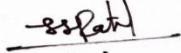




Career Oriented Course in
Data Analysis Using MS Excel
Certificate


*This is to certify that Mr./Ms. **Harshada Dasharath Koli**
 (B. Sc. **I**) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has
 successfully completed the career oriented course in “**Data Analysis Using MS
 Excel**” during January 2023 to March 2023.*



 Ms. P. M. Patil


 Mr. G. D. Satpute




 Mrs. S. S. Patil


 Asso. Prof. V. V. Koshti
Head


 Prof. (Dr.) M. K. Patil
Principal

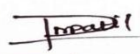


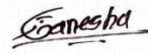
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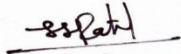



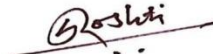
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*This is to certify that Mr./Ms. **Jyoti Babasaheb Kamble**
 (B. Sc. I) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has
 successfully completed the career oriented course in “Data Analysis Using MS
 Excel” during January 2023 to March 2023.*



 Ms. P. M. Patil


 Mr. G. D. Satpute




 Mrs. S. S. Patil


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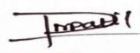



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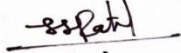




Career Oriented Course in
Data Analysis Using MS Excel
Certificate


*This is to certify that Mr./Ms. **Kajal Appaso Pawar**
 (B. Sc. I) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has
 successfully completed the career oriented course in “Data Analysis Using MS
 Excel” during January 2023 to March 2023.*



 Ms. P. M. Patil


 Mr. G. D. Satpute




 Mrs. S. S. Patil


 Asso. Prof. V. V. Koshti
Head


 Prof. (Dr.) M. K. Patil
Principal

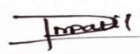


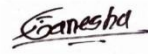
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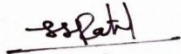



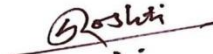
Career Oriented Course in
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Certificate


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 (B. Sc. I) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has
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 Ms. P. M. Patil


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Principal

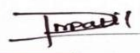



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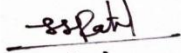




Career Oriented Course in
Data Analysis Using MS Excel
Certificate


*This is to certify that Mr./Ms. **Manish Mahavir Kakade**
 (B. Sc. III) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has
 successfully completed the career oriented course in “Data Analysis Using MS
 Excel” during January 2023 to March 2023.*



 Ms. P. M. Patil


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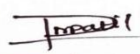


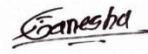
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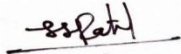



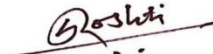
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*This is to certify that Mr./Ms. **Omkar Chhagan Punekar**
 (B. Sc. I) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has
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 Excel” during January 2023 to March 2023.*



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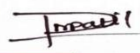



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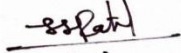




Career Oriented Course in
Data Analysis Using MS Excel
Certificate


*This is to certify that Mr./Ms. **Pooja Balkrishna Kadam**
 (B. Sc. III) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has
 successfully completed the career oriented course in “Data Analysis Using MS
 Excel” during January 2023 to March 2023.*



 Ms. P. M. Patil


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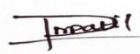


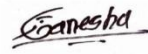
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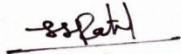



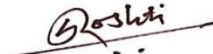
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*This is to certify that Mr./Ms. **Poonam Balkrishna Kadam**
 (B. Sc. I) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has
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 Ms. P. M. Patil


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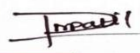



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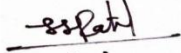




Career Oriented Course in
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*This is to certify that Mr./Ms. **Prajwal Shahaji Khot**
 (B. Sc. I) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has
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 Ms. P. M. Patil


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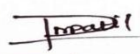


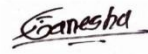
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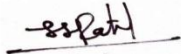



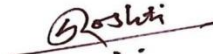
Career Oriented Course in
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*This is to certify that Mr./Ms. **Prajwal Shivaji Patil**
 (B. Sc. **III**) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has
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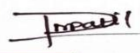



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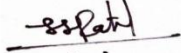




Career Oriented Course in
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*This is to certify that Mr./Ms. **Pranali Keshav Jagtap**
 (B. Sc. **III**) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has
 successfully completed the career oriented course in “**Data Analysis Using MS
 Excel**” during January 2023 to March 2023.*



 Ms. P. M. Patil


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Principal

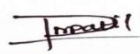


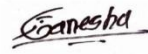
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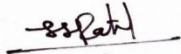



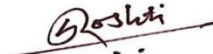
Career Oriented Course in
Data Analysis Using MS Excel
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This is to certify that Mr./Ms. Prashant Malhari Dubule
(B. Sc. I) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has
successfully completed the career oriented course in “Data Analysis Using MS
Excel” during January 2023 to March 2023.


 Ms. P. M. Patil


 Mr. G. D. Satpute


 Mrs. S. S. Patil


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Head


 Prof. (Dr.) M. K. Patil
Principal



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This is to certify that Mr./Ms. Prathamesh Nivrutti sargar
(B. Sc. I) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has
successfully completed the career oriented course in “Data Analysis Using MS
Excel” during January 2023 to March 2023.



 Ms. P. M. Patil


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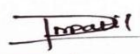


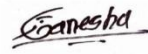
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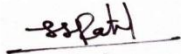



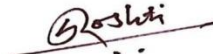
Career Oriented Course in
Data Analysis Using MS Excel
Certificate


*This is to certify that Mr./Ms. **Rutuja Sunil Deshmukh**
 (B. Sc. **III**) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has
 successfully completed the career oriented course in “**Data Analysis Using MS
 Excel**” during January 2023 to March 2023.*



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Principal

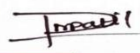



Shikshan Prasarak Sanstha's
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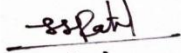




Career Oriented Course in
Data Analysis Using MS Excel
Certificate


*This is to certify that Mr./Ms. **Sairaj Nandkumar Patil**
 (B. Sc. **III**) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has
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 Ms. P. M. Patil


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Principal

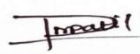


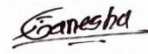
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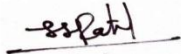



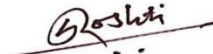
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*This is to certify that Mr./Ms. **Sanika Sampat Patil**
 (B. Sc. I) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has
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 Excel” during January 2023 to March 2023.*



 Ms. P. M. Patil


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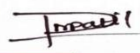



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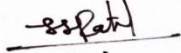




Career Oriented Course in
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*This is to certify that Mr./Ms. **Sanket Sukhadev Patil**
 (B. Sc. I) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has
 successfully completed the career oriented course in “Data Analysis Using MS
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 Ms. P. M. Patil


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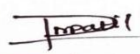


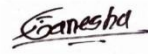
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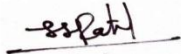



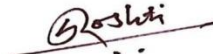
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*This is to certify that Mr./Ms. **Shakil Sardar Nadaf**
 (B. Sc. **III**) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has
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 Excel**” during January 2023 to March 2023.*


 Ms. P. M. Patil


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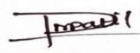


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*This is to certify that Mr./Ms. **Shital Ananda Mali**
 (B. Sc. **III**) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has
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 Ms. P. M. Patil


 Mr. G. D. Satpute




 Mrs. S. S. Patil


 Asso. Prof. V. V. Koshti
Head


 Prof. (Dr.) M. K. Patil
Principal

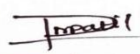


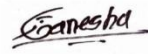
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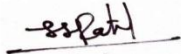



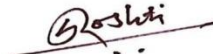
Career Oriented Course in
Data Analysis Using MS Excel
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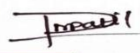



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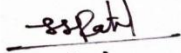




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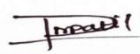


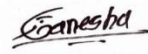
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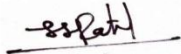



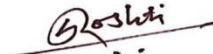
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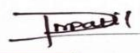



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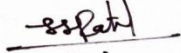




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*This is to certify that Mr./Ms. **Siddhanath Anand Awalekar**
 (B. Sc. I) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has
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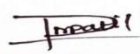


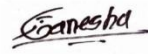
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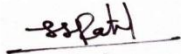



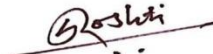
Career Oriented Course in
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*This is to certify that Mr./Ms. **Snehal Babaso Patil**
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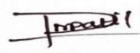



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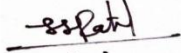




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*This is to certify that Mr./Ms. **Someshwar Ramesh Borkar**
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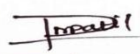


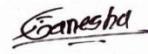
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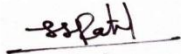



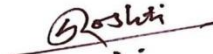
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*This is to certify that Mr./Ms. **Suraj Dinkar Babar**
 (B. Sc. **III**) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has
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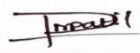



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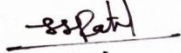




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*This is to certify that Mr./Ms. **Tanaya Dhananjay Purohit**
 (B. Sc. **III**) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has
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*This is to certify that Mr./Ms. **Tanuja Tanaji Shingade**
 (B. Sc. I) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has
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*This is to certify that Mr./Ms. **Tejas Tatyasaheb Sathe**
 (B. Sc. III) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has
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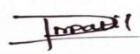


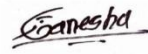
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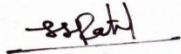



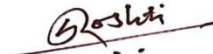
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*This is to certify that Mr./Ms. **Vaishnavi Dnyandev Pakhare**
 (B. Sc. I) of P. V. P. Mahavidyalaya, Kavathe Mahankal Dist. Sangli has
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*This is to certify that Mr./Ms. **Vikas Pradip Pawar**
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